

# P-Cap Multi-Touch Panel Mount IPC & Monitor Series

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# Product Features

## •P-Cap Multi-Touch Panel Mount IPC & Monitor Series

are designed as Panel Mount solution. The true flat IP65 front panel reduces the possibility of debris accumulation and corrosion. MTS provides a wide range of industrial touch Panel PC products in different sizes, high brightness displays, and customizable high performance hardware configurations that are designed and certified to work under harsh environments and various automation applications.

The displays of UMSCPM series are available in 16:9 aspect ratio with the size of 10.1", 15.6", 18.5", 21.5" ; and 4:3 aspect ratio with the size of 10.4", 12", 15", 17", 19". The UMSCPM series are the best choice for factory automation, control system, self-service kiosk and other applications.

### UMSCPM series

- UMSC101-PM
- UMSC104-PM
- UMSC12-PM
- UMSC15-PM
- UMSC156-PM
- UMSC17-PM
- UMSC185-PM
- UMSC19-PM
- UMSC215-PM



# Product Features

## Industrial Panel Mount PC



### Overall performance



Anti-explosion/anti-surge/  
Anti-lightning/anti-vibration



Drive board designed with anti-high  
and low temp, up to -20°C~70°C



Support wide voltage  
12V-24V power input



Anti-interference ability to meet  
EMC EMI standards



Front panel IP65 dustproof  
and waterproof rating



Supports Embedded/Horizontal/  
Desktop/Wall-mounted/VESA Installation

### Configuration



Interface: Default-RJ45/HDMI/DVI/VGA/audio/power interfaces,  
support VGA/HDMI/DVI automatic identification signal channel



**RJ45 interface:** data stability, low damage rate, strong and  
not easy to fall off



**Power interface:** comes with anti-drop design, DC interface or DC  
terminal block optional

# Product Features

## Industrial Panel Mount Android PC



### Overall performance



3mm slim front panel, embedded installation preferred



Aluminum alloy die-casting machine molding, the whole closed waterproof and dustproof design



Front panel IP65 dustproof and waterproof rating



Supports 4G, 3G, Bluetooth, WIFI wireless communication



SDK secondary development package can be provided to develop APP programs



Ten point capacitive touch screen, sensitive touch

### Configuration



**System:** Default Android 4.4 System  
Upgradeable Android 5.1/6.0/7.1 System



**Configuration:** Default A83T Eight Cortex-A7 2GHz  
2G DDR3 memory, 8G EMMC storage



**Interface:** Default USB\*1(Host), USB\*1(OTG),  
SD/SIM card slot, LAN\*1, audio\*1, COM\*2

# Product Features

## Industrial Panel Mount Touch Monitor



### Overall performance



Independent research and development



The body adopts aluminum alloy die-casting machine molding, fully enclosed dustproof and waterproof.



Front panel IP65 dustproof and waterproof



Surge protection / anti-static / explosion-proof / flame / moisture / imitation / anti-jamming

### Configuration



10 points Capacitive Touch / Resistive Touch / Non-Touch Optional



Support desktop / wall-mounted / VESA / embedded and other diverse installation methods



# Product Features

Black & Silver Color for Choice



# Specification

## Measurement

Spec.	10.1 Inch	10.4 Inch	12 Inch	15 Inch	15.6 Inch
Aspect Ratio	16:9	4:3	4:3	4:3	16:9
Resolution	1366*768	1024*768	1024*768	1024*768	1366*768

Spec.	17 Inch	18.5 Inch	19 Inch	21.5 Inch
Aspect Ratio	4:3	16:9	4:3	16:9
Resolution	1280*1024	1366*768	1280*1024	1920*1080

# Specification

## Specification

### Touch Screen Parameters

Touch Screen Type:	Capacitive Touch Screen/Infrared Touch Screen
Response time:	< 5ms
Touch POINTS:	10-Point Touch/6-Point Touch
Touch effective identification:	> 1.5mm(Finger, Touch Pen)
Scanning frequency:	200 Hz
Scanning accuracy:	4096×4096
Communication mode:	Full Speed USB 2.0,3.0
Theoretical clicks:	5000Million Times
Operating current/voltage:	180Ma/DC+5V±5%
Anti-light interference:	Can be used as normal under Sunlight and other lights
Touch data output mode:	Coordinate Output
Surface hardness:	Mohs7-step Explosion-proof Tempered Glass
Operating System:	Windows 7/ 8 /10/ Windows XP / Linux /MAC OS /Android
Drive:	Free Drive, Plug And Play

### LED Screen Parameters

Screen type:	LED Back Light, A-type
Refresh frequency:	60Hz
Viewing angle:	Horizontal 178 Degree, Vertical 178 Degree
Service life:	> 50000Hours

### Power Supply Parameters

Input Power:	110-240V AC 50/60Hz
Overall Power Consumption:	< 60W or 120-280W
Standby Power Consumption:	<1W

### Working Environment

Operation temperature:	-10°C-60°C
Working humidity:	10% - 95%
Storage temperature:	0°C-40°C
Storage humidity:	10% - 95%



# Specification

## AIO System Configuration

Program	Touch screen monitor	Android	X86 Standard version	X86 Elite version	X86 Deluxe version	OEM Service
Chip	Need to connect computer to help work, more details pls check parameters 3.1	Octa core RK3368 Quad core RK3288 Hexa core RK3399	default: Intel Celeron Quad J1900	Industrial motherboard (I3、I5、I7)	H110 motherboard CPU: (I3、I5、I7)	YES
Ram		2G/4G	2G/4G/8G/16G			
Hard disk		Standrad 8G, optional 16/32G	SSD: 32G/64G/128G/256G/512G HDD: 500G/1T			
Graphics cards		Android HD	Core Graphics		Core Graphics (Dedicated Graphics optional)	
Resolution		720P/1080P				
OS		Version 7.1.2 Inner core 4.4.71	Multi-touch: Win 7/ Win 8/Win 10/ Linux Single-touch: XP/CE/MAC Default Win OS			
Network	Integrated 10/100 / 1000M adaptive network card, wireless network card 802.11a / b / g / n					
Input Power	110-240V AC 50/60Hz					

# Specification

## I/O Ports in Different Configuration

10.4 inch  
DC 12V HDMI VGA USB\*2 RJ-45 Audio O/I COM



12 inch-21.5 inch  
USB2.0\*3  
DC 12V HDMI VGA USB3.0\*1 RJ-45 Audio O/I COM\*2



WIFI



Support VGA + HDMI + DVI automatic identification signal channel  
More Interfaces available,2/4



RJ45 HDMI DVI VGA Audio I/O DC12V-24V

Customized  
Interface

BNC video interface COM Aviation power interface

(Note: Due to different motherboards, the corresponding interface and position at the bottom are different, subject to the actual product)

# Specification

## Motherboard



Intel Celeron Quad-core  
J1900 CPU 2.0Ghz



Intel H81 Motherboard With  
Intel Core i3 i5 / i7 CPU

## RK3288 Cortex-A17 1.8Ghz

2G DDR3 RAM

Can upgrade to: 4G DDR3 | 8G DDR3



## Industrial Grade Driver Board For Screen Monitor

Board filter solid state capacitor  
voltage value 36V/105 degrees  
Port contact 6KV, air 16KV  
EMI, anti-magnetic design



Using REALTEK brand industrial grade  
display chipset wide voltage 12-24V input  
Reach the standard of flame proof,  
explosion proof and moisture proof



# Specification

## Installation



Desktop



Desktop



Wall  
Mounted



Embedded





# Target Applications



Navigation



ATM



Hospital



Expo



Industrial Automation



Supermarket



Transportation

# Business Opportunity

For Business Opportunities & Questions!

[sales@mightecsys.com](mailto:sales@mightecsys.com)

MIGHTEC SYSTEMS CO., LTD.